

TX station: 12xAkk2-omni
Gain solid integration : enabled

Site Name: Labelitaly

General data of Antenna System

TX station	12xAkk2-omni
Site Name	Labelitaly
System of coordinates	Geographic
Longitude	00°00'00.000"
Latitude	00°00'00.000"
Ground level a.s.l. (m)	100.0
Antenna system height (m)	50.0
Transmitter power(Watt)	10000.000
Carrier wave frequency (MHz)	98.000
Antenna system central frequency (MHz)	98.000
Antenna base diagrams type 1	LABEL ITALY-AKK_2V PANEL W.B. FM vertical pol.
Antenna base diagrams type 2	-
Polarization (H/V/C/X)	V
Transmitting cable attenuation (dB)	0.0
Additional attenuations(dB)	0.0
Base diagrams sectors (T = All, F = Front)	T
Velocity factor of cables to Antennas (0÷1)	0.88
Coordinate System(C = cartesian, P = polar)	P
Mast side / diameter(cm):	200.0
Mast cross section (T/Q/C)	Q
Structure rotation w.r.t. North (°)	0.0
Mast rotation w.r.t. North (°)	0.0

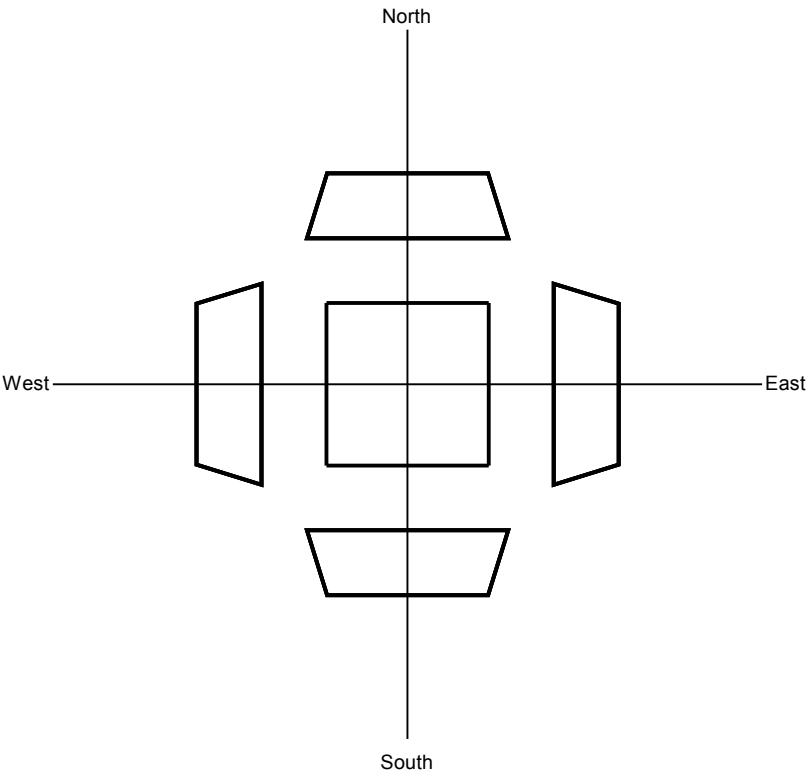
Information about antennas used in the System

	<i>Antenna type 1</i>
Manufacturer	LABEL ITALY
Antenna model	AKK_2V PANEL W.B. F
Band start(MHz)	88
Band stop(MHz)	105
diagrams Frequency(MHz)	98
Polariz (H,V,C,X)	V
Vertical dist (cm)	310
Height (cm)	174
Width (cm)	248
Thickness (cm)	80
Weight (Kg)	45
Maximum power (KW)	5
Gain (dBd)	8.1
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	0
R.C.Phase (°)	0

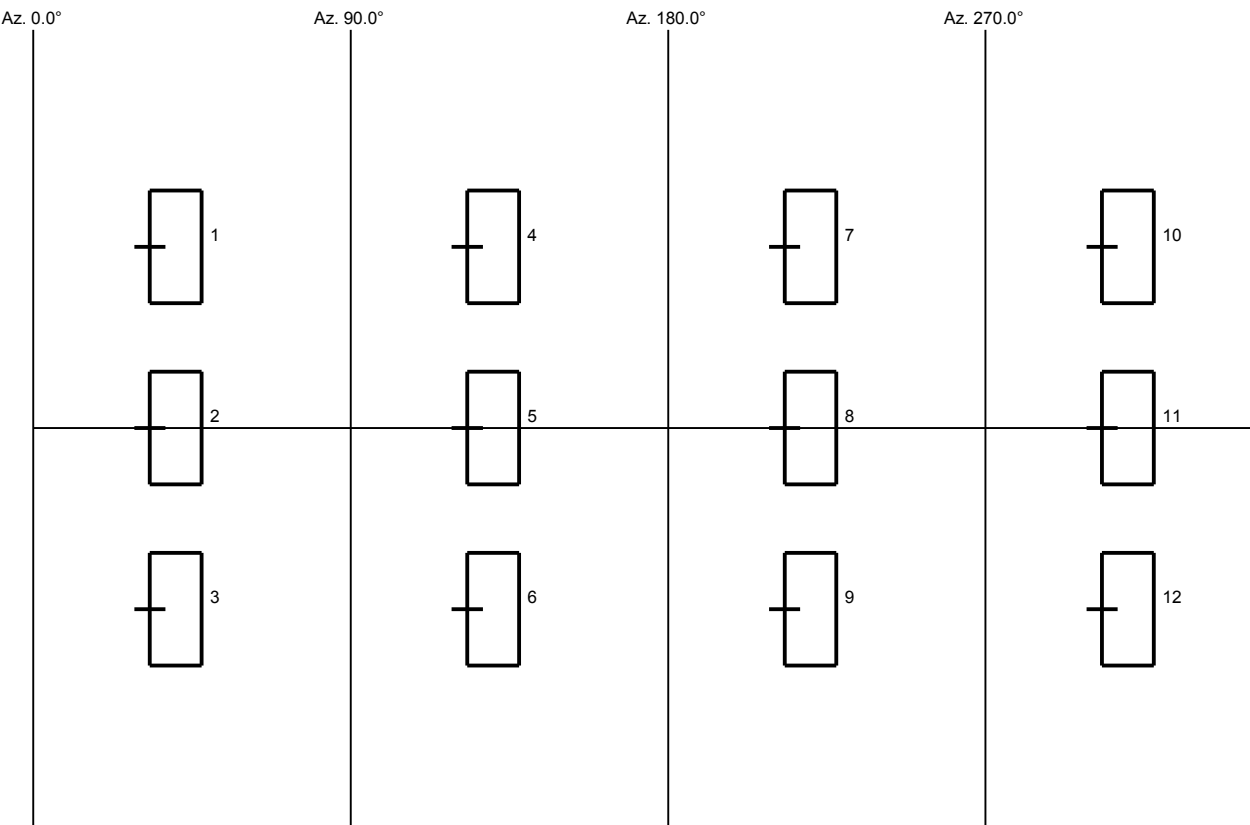
Geometr. and electrical data of Antenna System

	<i>Power</i> (%)	<i>Tilt</i> (°)	<i>Az.</i> (°/N)	<i>Phase</i> (°)		<i>V dist.</i> (m)	<i>Scr-d</i> (cm)	<i>Scr-Az</i> (°/N)	<i>Rot.</i> (1÷4)	<i>Type</i> (1÷2)	<i>L cables</i> (cm)	<i>Car. phase</i> (°)
1	8.333	0	0	0	+0.0	2.80	180.0	0.0	1	1	0.0	0.0
2	8.333	0	0	0	+0.0	0.00	180.0	0.0	1	1	0.0	0.0
3	8.333	0	0	0	+0.0	-2.80	180.0	0.0	1	1	0.0	0.0
4	8.333	0	90	0	+0.0	2.80	180.0	90.0	1	1	0.0	0.0
5	8.333	0	90	0	+0.0	0.00	180.0	90.0	1	1	0.0	0.0
6	8.333	0	90	0	+0.0	-2.80	180.0	90.0	1	1	0.0	0.0
7	8.333	0	180	0	+0.0	2.80	180.0	180.0	1	1	0.0	0.0
8	8.333	0	180	0	+0.0	0.00	180.0	180.0	1	1	0.0	0.0
9	8.333	0	180	0	+0.0	-2.80	180.0	180.0	1	1	0.0	0.0
10	8.333	0	270	0	+0.0	2.80	180.0	270.0	1	1	0.0	0.0
11	8.333	0	270	0	+0.0	0.00	180.0	270.0	1	1	0.0	0.0
12	8.333	0	270	0	+0.0	-2.80	180.0	270.0	1	1	0.0	0.0

Plan of antenna system



Side of antenna system



Antennas arrays data

A. Antennas array azimuth (°/N)	0	90	180	270
B. Number of antennas	3	3	3	3
C. Nominal power supply (W)	2499.99	2499.99	2499.99	2499.99
D. Losses (addit. + cables) (dB)	0.0	0.0	0.0	0.0
E. Effective power supply (W)	2499.99	2499.99	2499.99	2499.99
F. Theor. maximum gain (dBd)	12.94	12.94	12.94	12.94
G. Distribution losses (dB)	0.00	0.00	0.00	0.00
H. Nominal max gain [F - G] (dBd)	12.94	12.94	12.94	12.94
I. Compensation losses (dB)	0.00	0.00	0.00	0.00
J. Effec. max gain [H - I] (dBd)	12.94	12.94	12.94	12.94
K. Effec. max gain (times)	19.68	19.68	19.68	19.68
L. Effec. max power [E * K] (KW)	49.2105	49.2105	49.2105	49.2105
M. Max power depr. angle (°)	0.0	0.0	0.0	0.0
N. Max power az. angle (°)	358	88	178	268

Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	15.7	90	15.7	180	15.7	270	15.7
10	15.6	100	15.6	190	15.6	280	15.6
20	15.0	110	15.0	200	15.0	290	15.0
30	14.8	120	14.8	210	14.8	300	14.8
40	15.6	130	15.6	220	15.6	310	15.6
50	15.6	140	15.6	230	15.6	320	15.6
60	14.8	150	14.8	240	14.8	330	14.8
70	15.0	160	15.0	250	15.0	340	15.0
80	15.6	170	15.6	260	15.6	350	15.6

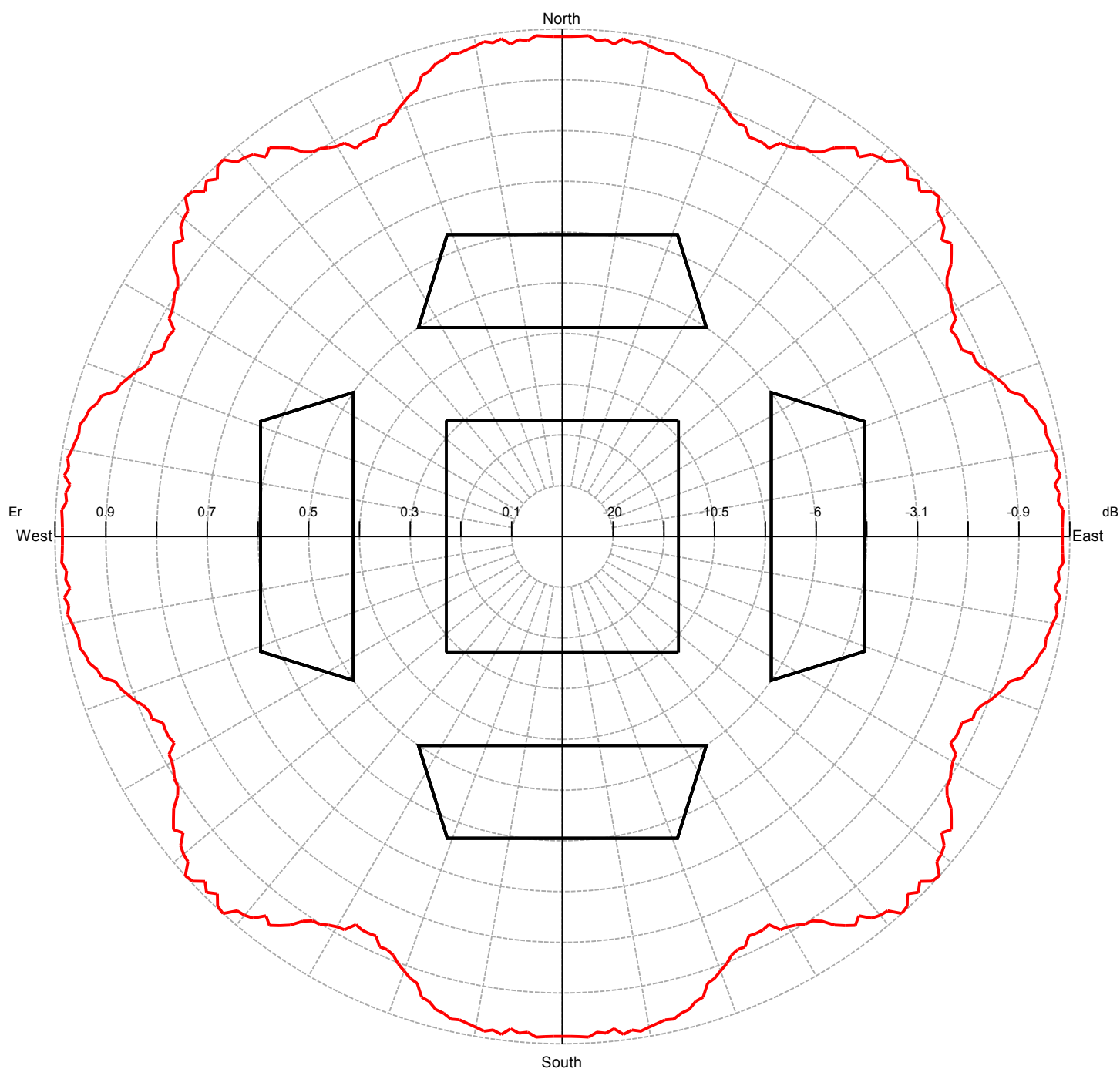
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Horizontal diagram at 0.0° depres. (Total Antenna)



0.0° depres. (Total Antenna), Gain (dBd): 5.79

ERP T.Max(KW): 37.9329 ERP E.Max(KW): 37.9329

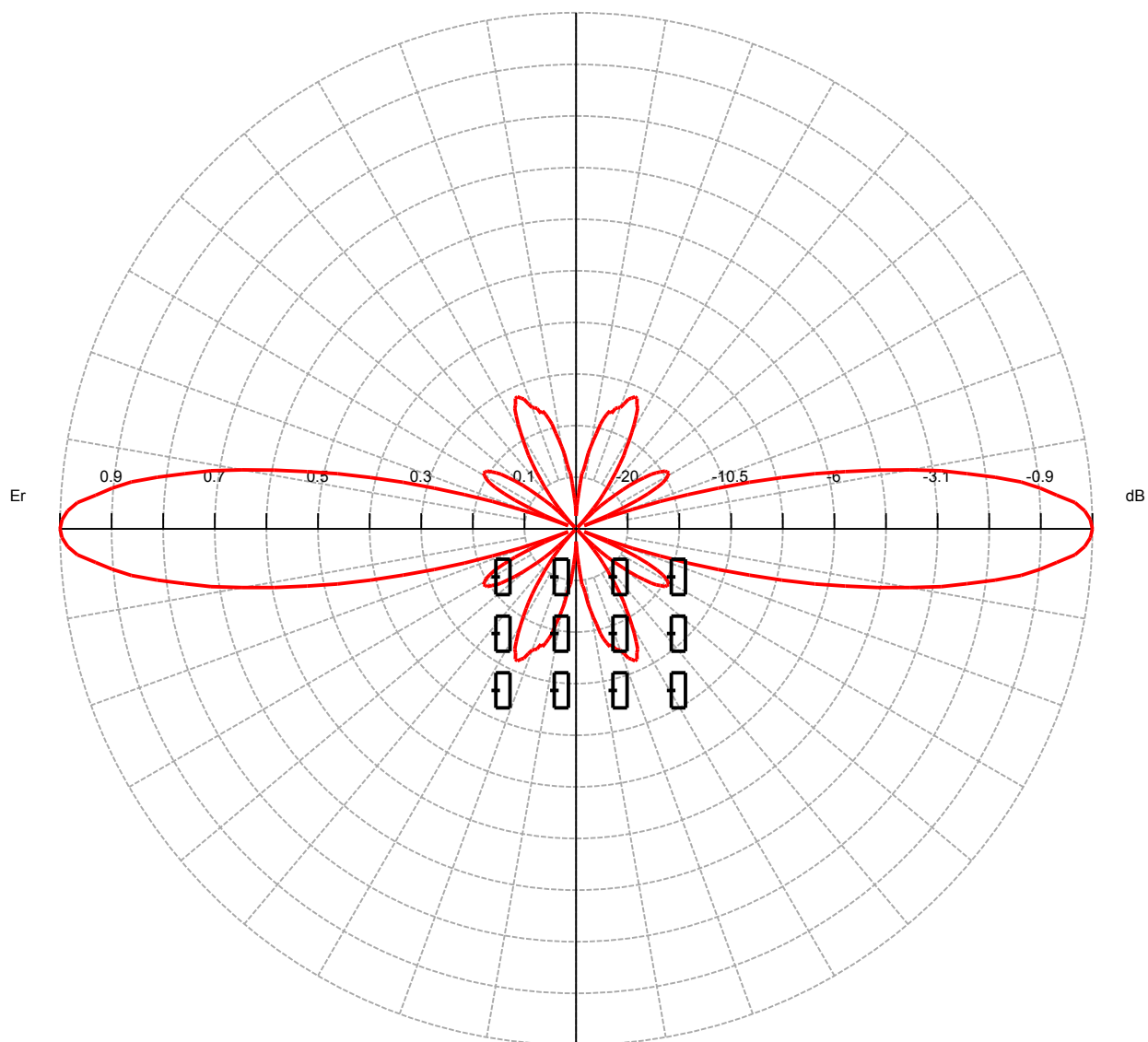
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Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 5.66

ERP T.Max(KW): 36.8344 ERP E.Max(KW): 36.8344